

AMENDMENT TO THE CLAIMS

Upon entry of this Amendment, the complete listing of claims is as follows:

1-78. (Cancelled).

79. (Currently Amended) An anchor delivery catheter for performing catheter-based annuloplasty by delivering anchors to heart tissue, the anchor delivery catheter comprising:

- a distal catheter portion adapted to be received into a chamber of a heart, said distal catheter portion including a distal tip and at least one sidewall defining a lumen along the catheter;
- an opening in said sidewall of said distal catheter portion and spaced proximally from said distal tip, said opening communicating with said lumen to facilitate the delivery of anchors through said lumen and said opening to heart tissue;
- anchor delivery structure disposed in said lumen;
- at least one anchor releasably supported on said anchor delivery structure and adapted to anchor to the heart tissue; and
- an elongate tensile member operatively coupled to each said anchor;

said anchor delivery structure being movable relative to the distal catheter portion in the chamber of the heart from a first position wherein said anchor is disposed within said lumen, to a second position wherein said anchor is moved through said opening to engage the heart tissue, and to a third position wherein said anchor is separated from said anchor delivery structure and remains engaged with the heart tissue.

80. (Previously Presented) The anchor delivery catheter of claim 79, wherein said distal catheter portion is convertible between a first condition wherein said distal catheter portion has a shape that does not conform to the contour of the gutter of the mitral valve, and a second condition wherein the shape of said distal catheter portion conforms to the contour of the gutter of the mitral valve.

81. (Previously Presented) The anchor delivery catheter of claim 79, further comprising at least a second anchor disposed within said lumen and supported on said anchor delivery structure.

82. (Previously Presented) The anchor delivery catheter of claim 81, wherein said anchor delivery structure is further moveable to move said second anchor through said opening to engage the heart tissue.

83. (Currently Amended) The anchor delivery catheter of claim 79, further comprising a locking element coupled to said tensile member for movement therealong relative to said anchor, wherein said locking element is adapted to remain coupled to said tensile member and separated from the anchor delivery catheter.